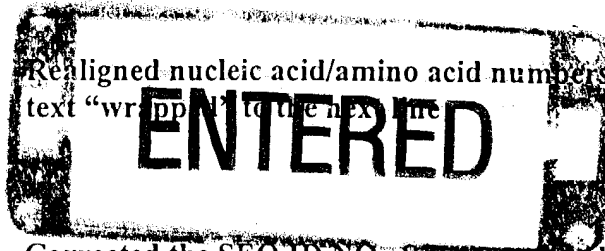


1/FWO

**CRF Errors Edited by the STIC Systems  
Branch**

Serial Number: 10/988,625

CRF Edit Date: 9/3/04  
Edited by: h



\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapp" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

\_\_\_ Other:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



IFWO

## RAW SEQUENCE LISTING

DATE: 09/03/2004

PATENT APPLICATION: US/10/788,625

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

3 <110> APPLICANT: Tsurushita, Naoya  
 4 Kumar, Shankar  
 5 Vasquez, Maximiliano  
 7 <120> TITLE OF INVENTION: Humanized Chicken Antibodies  
 9 <130> FILE REFERENCE: 05882.0044.NPUS02  
 11 <140> CURRENT APPLICATION NUMBER: 10/788,625  
 C--> 12 <141> CURRENT FILING DATE: 2004-02-26  
 14 <160> NUMBER OF SEQ ID NOS: 103  
 16 <170> SOFTWARE: PatentIn version 3.2  
 18 <210> SEQ ID NO: 1  
 19 <211> LENGTH: 378  
 20 <212> TYPE: DNA  
 21 <213> ORGANISM: Chicken  
 23 <400> SEQUENCE: 1  
 24 tgccgtgacg ttggacgagt ctggggggcgg cctccagacg cccggaggag cgctcagcct 60  
 26 cgtctgcaag gcctccgggt tcaccttcag tagttacagc atgctctggg tgcgacaggc 120  
 28 gcccggaag gggctggaat acgtcgtga aattaccaac actggttagga ccagaagata 180  
 30 cggggcggcg gtgaagggcc gtgccaccat ctcgagggac aacgggcaga gcacagtga 240  
 32 gctgcagctg aacaacctca gggctgagga caccggcacc tactactgcg ccagaagtag 300  
 34 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcattggg gccacgggac 360  
 36 cgaagtcatc gtctcctc 378  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 126  
 41 <212> TYPE: PRT  
 42 <213> ORGANISM: Chicken  
 44 <400> SEQUENCE: 2  
 46 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly  
 47 1 5 10 15  
 50 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 51 20 25 30  
 54 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val  
 55 35 40 45  
 58 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val  
 59 50 55 60  
 62 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg  
 63 65 70 75 80  
 66 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys  
 67 85 90 95  
 70 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn  
 71 100 105 110  
 74 Ile Asn Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser  
 75 115 120 125  
 78 <210> SEQ ID NO: 3

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

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79 <211> LENGTH: 312
80 <212> TYPE: DNA
81 <213> ORGANISM: chicken
83 <400> SEQUENCE: 3
84 tgcgctgact cagccggcct cagtgtcagc aaacctggga ggaaccgtca agatcacctg      60
86 ctccgggggt tacagcggct attatggctg gtaccagcag aaatcacctg gcagtgcccc      120
88 tgtcactgtg atctatgaca acaccaggag accctcggac atcccttcac gattctccgg      180
90 ttccaaatcc ggctccacag ccacattaac catcactggg gtccaagccg acgacgaggc      240
92 tgtctatttc tgtgggacct gggacagcag ccgtgttggt atatttgggg ccgggacaac      300
94 cctgaccgtc ct
97 <210> SEQ ID NO: 4
98 <211> LENGTH: 104
99 <212> TYPE: PRT
100 <213> ORGANISM: Chicken
102 <400> SEQUENCE: 4
104 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Leu Gly Gly Thr Val
105 1          5          10          15
108 Lys Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp Tyr Gln
109          20          25          30
112 Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp Asn Thr
113          35          40          45
116 Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly
117          50          55          60
120 Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala
121 65          70          75          80
124 Val Tyr Phe Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe Gly
125          85          90          95
128 Ala Gly Thr Thr Leu Thr Val Leu
129          100
132 <210> SEQ ID NO: 5
133 <211> LENGTH: 30
134 <212> TYPE: PRT
135 <213> ORGANISM: Homo sapiens
137 <400> SEQUENCE: 5
139 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
140 1          5          10          15
143 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
144          20          25          30
147 <210> SEQ ID NO: 6
148 <211> LENGTH: 14
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo sapiens
152 <400> SEQUENCE: 6
154 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
155 1          5          10
158 <210> SEQ ID NO: 7
159 <211> LENGTH: 32
160 <212> TYPE: PRT
161 <213> ORGANISM: Homo sapiens

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

```

163 <400> SEQUENCE: 7
165 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln
166 1          5          10          15
169 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg
170          20          25          30
173 <210> SEQ ID NO: 8
174 <211> LENGTH: 9
175 <212> TYPE: PRT
176 <213> ORGANISM: Homo sapiens
178 <400> SEQUENCE: 8
180 Trp Gly Gln Gly Thr Leu Val Thr Val
181 1          5
184 <210> SEQ ID NO: 9
185 <211> LENGTH: 22
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
189 <400> SEQUENCE: 9
191 Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln
192 1          5          10          15
195 Thr Val Arg Ile Thr Cys
196          20
199 <210> SEQ ID NO: 10
200 <211> LENGTH: 15
201 <212> TYPE: PRT
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 10
206 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr
207 1          5          10          15
210 <210> SEQ ID NO: 11
211 <211> LENGTH: 32
212 <212> TYPE: PRT
213 <213> ORGANISM: Homo sapiens
215 <400> SEQUENCE: 11
217 Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser
218 1          5          10          15
221 Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys
222          20          25          30
225 <210> SEQ ID NO: 12
226 <211> LENGTH: 11
227 <212> TYPE: PRT
228 <213> ORGANISM: Homo sapiens
230 <400> SEQUENCE: 12
232 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly
233 1          5          10
236 <210> SEQ ID NO: 13
237 <211> LENGTH: 378
238 <212> TYPE: DNA
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 13

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

```

242 tgaggtgcag ttggtggagt ccggaggtgg actcgtgcag cctggaggaa gcctcaggct      60
244 cagctgcgcc gcctccgggt tcaccttcag tagttacagc atgctctggg tgcgacaggc      120
246 gcctggcaag ggactggaat acgtcgtga aattaccaac actggttaga ccagaagata      180
248 cggagctgcg gtgaagggcc gtgccaccat ctcgaggac aacgccaaga acacagtgtg      240
250 cctgcagatg aacagcctca gggctgagga caccgcctg tactactgcg ccagaagtag      300
252 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcatggg gccagggaac      360
254 cctggtcacc gtctcttc      378
257 <210> SEQ ID NO: 14
258 <211> LENGTH: 126
259 <212> TYPE: PRT
260 <213> ORGANISM: Homo sapiens
262 <400> SEQUENCE: 14
264 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
265 1      5      10      15
268 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
269      20      25      30
272 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
273      35      40      45
276 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val
277      50      55      60
280 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
281 65      70      75      80
284 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
285      85      90      95
288 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn
289      100      105      110
292 Ile Asn Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
293      115      120      125
296 <210> SEQ ID NO: 15
297 <211> LENGTH: 315
298 <212> TYPE: DNA
299 <213> ORGANISM: Homo sapiens
301 <400> SEQUENCE: 15
302 tagctctgag ctgactcagc cgccttcagt gtcagtggcc ctgggacaga ccgtcaggat      60
304 cacctgctcc ggaggttaca gcggtctatta tggctggtac cagcagaaac ctggccaggc      120
306 tcctgtcact gtgatttatg acaacaccag gagaccctcg gacatccctt cagcattctc      180
308 cggttccaaa tccggtccca cagccacatt aaccatcact ggagtccaag ccgaggacga      240
310 ggctgactat tactgtggga cctgggacag cagcctgtgt ggtatatttg gaggtgggac      300
312 aaagctgacc gtcct      315
315 <210> SEQ ID NO: 16
316 <211> LENGTH: 105
317 <212> TYPE: PRT
318 <213> ORGANISM: Homo sapiens
320 <400> SEQUENCE: 16
322 Ser Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Leu Gly Gln
323 1      5      10      15
326 Thr Val Arg Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp
327      20      25      30
330 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile Tyr Asp Asn

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:13

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

```

331          35          40          45
334 Thr Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser
335          50          55          60
338 Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu
339 65          70          75          80
342 Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe
343          85          90          95
346 Gly Gly Gly Thr Lys Leu Thr Val Leu
347          100          105
350 <210> SEQ ID NO: 17
351 <211> LENGTH: 27
352 <212> TYPE: DNA
353 <213> ORGANISM: Artificial
355 <220> FEATURE:
356 <223> OTHER INFORMATION: Synthetic Primer
358 <400> SEQUENCE: 17
359 gggggcgcca gcggtcgcc ctgtgtc
362 <210> SEQ ID NO: 18
363 <211> LENGTH: 31
364 <212> TYPE: DNA
365 <213> ORGANISM: Artificial
367 <220> FEATURE:
368 <223> OTHER INFORMATION: Synthetic Primer
370 <400> SEQUENCE: 18
371 cccggcgccg acaacggttt ggagggacct c
374 <210> SEQ ID NO: 19
375 <211> LENGTH: 30
376 <212> TYPE: DNA
377 <213> ORGANISM: Artificial
379 <220> FEATURE:
380 <223> OTHER INFORMATION: Synthetic Primer
382 <400> SEQUENCE: 19
383 ggggtctagag ccattggact ctccgtcctg
386 <210> SEQ ID NO: 20
387 <211> LENGTH: 33
388 <212> TYPE: DNA
389 <213> ORGANISM: Artificial
391 <220> FEATURE:
392 <223> OTHER INFORMATION: Synthetic Primer
394 <400> SEQUENCE: 20
395 cccgctcagc cctccaaatt ttcattctgg atc
398 <210> SEQ ID NO: 21
399 <211> LENGTH: 45
400 <212> TYPE: DNA
401 <213> ORGANISM: Artificial
403 <220> FEATURE:
404 <223> OTHER INFORMATION: Synthetic Primer
406 <400> SEQUENCE: 21
407 cttcgtgcta gcgtccactc caatatagat gtgtgcaagc ttggc

```

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 09/03/2004

PATENT APPLICATION: US/10/788,625

TIME: 14:29:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40

Seq#:41,42,43,44,45,46,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68

Seq#:69,70,87,88

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/788,625

DATE: 09/03/2004

TIME: 14:29:14

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\09032004\J788625.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date





IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

W--> 1 05882.0044.NPUS02 *delete*  
 4 <110> APPLICANT: Tsurushita, Naoya  
 5 Kumar, Shankar  
 6 Vasquez, Maximiliano  
 8 <120> TITLE OF INVENTION: Humanized Chicken Antibodies  
 10 <130> FILE REFERENCE: 05882.0044.NPUS02  
 12 <140> CURRENT APPLICATION NUMBER: 10/788,625  
 C--> 13 <141> CURRENT FILING DATE: 2004-02-26

15 <160> NUMBER OF SEQ ID NOS: 103  
 17 <170> SOFTWARE: PatentIn version 3.2  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 378  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Chicken  
 24 <400> SEQUENCE: 1

*Does Not Comply  
 Corrected Diskette Needed*

*pp 1,6*

25 tgccgtgacg ttggacgagt ctggggggcgg cctccagacg cccggaggag cgctcagcct 60  
 27 cgtctgcaag gcctccgggt tcaccttcag tagttacagc atgctctggg tgcgacaggc 120  
 29 gcccggaag gggctggaat acgtcgtga aattaccaac actggttaga ccagaagata 180  
 31 cggggcggcg gtgaagggcc gtgccaccat ctcgaggagc aacgggcaga gcacagtga 240  
 33 gctgcagctg aacaacctca gggctgagga caccggcacc tactactgcg ccagaagtag 300  
 35 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcatggg gccacggggac 360  
 37 cgaagtcacg gtctctc 378

40 &lt;210&gt; SEQ ID NO: 2

41 &lt;211&gt; LENGTH: 126

42 &lt;212&gt; TYPE: PRT

43 &lt;213&gt; ORGANISM: Chicken

45 &lt;400&gt; SEQUENCE: 2

47 Ala Val Thr Leu Asp Glu Ser Gly Gly Gly Leu Gln Thr Pro Gly Gly  
 48 1 5 10 15  
 51 Ala Leu Ser Leu Val Cys Lys Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 52 20 25 30  
 55 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val  
 56 35 40 45  
 59 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val  
 60 50 55 60  
 63 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Gly Gln Ser Thr Val Arg  
 64 65 70 75 80  
 67 Leu Gln Leu Asn Asn Leu Arg Ala Glu Asp Thr Gly Thr Tyr Tyr Cys  
 68 85 90 95  
 71 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn  
 72 100 105 110  
 75 Ile Asn Ala Trp Gly His Gly Thr Glu Val Ile Val Ser Ser  
 76 115 120 125

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

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79 <210> SEQ ID NO: 3
80 <211> LENGTH: 312
81 <212> TYPE: DNA
82 <213> ORGANISM: chicken
84 <400> SEQUENCE: 3
85 tgcgctgact cagccggcct cagtgtcagc aaacctggga ggaaccgtca agatcacctg      60
87 ctccgggggt tacagcgggt attatggctg gtaccagcag aaatcacctg gcagtgcccc      120
89 tgtcactgtg atctatgaca acaccaggag accctcggac atcccttcac gattctccgg      180
91 ttccaaatcc gggtccacag ccacattaac catcactggg gtccaagccg acgacgaggc      240
93 tgtctatttc tgtgggacct gggacagcag ccgtgttggt atatttgggg ccgggacaac      300
95 cctgaccgtc ct                                     312
98 <210> SEQ ID NO: 4
99 <211> LENGTH: 104
100 <212> TYPE: PRT
101 <213> ORGANISM: Chicken
103 <400> SEQUENCE: 4
105 Ala Leu Thr Gln Pro Ala Ser Val Ser Ala Asn Leu Gly Gly Thr Val
106 1      5      10      15
109 Lys Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp Tyr Gln
110      20      25      30
113 Gln Lys Ser Pro Gly Ser Ala Pro Val Thr Val Ile Tyr Asp Asn Thr
114      35      40      45
117 Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser Gly
118      50      55      60
121 Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Asp Asp Glu Ala
122 65      70      75      80
125 Val Tyr Phe Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe Gly
126      85      90      95
129 Ala Gly Thr Thr Leu Thr Val Leu
130      100
133 <210> SEQ ID NO: 5
134 <211> LENGTH: 30
135 <212> TYPE: PRT
136 <213> ORGANISM: Homo sapiens
138 <400> SEQUENCE: 5
140 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
141 1      5      10      15
144 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
145      20      25      30
148 <210> SEQ ID NO: 6
149 <211> LENGTH: 14
150 <212> TYPE: PRT
151 <213> ORGANISM: Homo sapiens
153 <400> SEQUENCE: 6
155 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
156 1      5      10
159 <210> SEQ ID NO: 7
160 <211> LENGTH: 32
161 <212> TYPE: PRT

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

162 <213> ORGANISM: Homo sapiens  
 164 <400> SEQUENCE: 7  
 166 Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Ser Leu Tyr Leu Gln  
 167 1 5 10 15  
 170 Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg  
 171 20 25 30  
 174 <210> SEQ ID NO: 8  
 175 <211> LENGTH: 9  
 176 <212> TYPE: PRT  
 177 <213> ORGANISM: Homo sapiens  
 179 <400> SEQUENCE: 8  
 181 Trp Gly Gln Gly Thr Leu Val Thr Val  
 182 1 5  
 185 <210> SEQ ID NO: 9  
 186 <211> LENGTH: 22  
 187 <212> TYPE: PRT  
 188 <213> ORGANISM: Homo sapiens  
 190 <400> SEQUENCE: 9  
 192 Ser Ser Glu Leu Thr Gln Asp Pro Ala Val Ser Val Ala Leu Gly Gln  
 193 1 5 10 15  
 196 Thr Val Arg Ile Thr Cys  
 197 20  
 200 <210> SEQ ID NO: 10  
 201 <211> LENGTH: 15  
 202 <212> TYPE: PRT  
 203 <213> ORGANISM: Homo sapiens  
 205 <400> SEQUENCE: 10  
 207 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Leu Val Ile Tyr  
 208 1 5 10 15  
 211 <210> SEQ ID NO: 11  
 212 <211> LENGTH: 32  
 213 <212> TYPE: PRT  
 214 <213> ORGANISM: Homo sapiens  
 216 <400> SEQUENCE: 11  
 218 Gly Ile Pro Asp Arg Phe Ser Gly Ser Ser Ser Gly Asn Thr Ala Ser  
 219 1 5 10 15  
 222 Leu Thr Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys  
 223 20 25 30  
 226 <210> SEQ ID NO: 12  
 227 <211> LENGTH: 11  
 228 <212> TYPE: PRT  
 229 <213> ORGANISM: Homo sapiens  
 231 <400> SEQUENCE: 12  
 233 Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly  
 234 1 5 10  
 237 <210> SEQ ID NO: 13  
 238 <211> LENGTH: 378  
 239 <212> TYPE: DNA  
 240 <213> ORGANISM: Homo sapiens

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

```

242 <400> SEQUENCE: 13
243 tgaggtgcag ttggtggagt ccggaggtgg actcgtgcag cctggaggaa gcctcaggct      60
245 cagctgcgcc gcctccgggt tcaccttcag tagttacagc atgctctggg tgcgacaggc      120
247 gcctggcaag ggactggaat acgtcgctga aattaccaac actggttagga ccagaagata      180
249 cggagctgcg gtgaagggcc gtgccaccat ctcgaggggac aacgccaaga acacagtgtg      240
251 cctgcagatg aacagcctca gggctgagga caccgccgtg tactactgcg ccagaagtag      300
253 tgtttattct tgttcttatg gttggtgtgc tggtaacatc aacgcacggg gccagggaac      360
255 cctggtcacc gtctcctc                                     378
258 <210> SEQ ID NO: 14
259 <211> LENGTH: 126
260 <212> TYPE: PRT
261 <213> ORGANISM: Homo sapiens
263 <400> SEQUENCE: 14
265 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
266 1          5          10          15
269 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
270          20          25          30
273 Ser Met Leu Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Tyr Val
274          35          40          45
277 Ala Glu Ile Thr Asn Thr Gly Arg Thr Arg Arg Tyr Gly Ala Ala Val
278          50          55          60
281 Lys Gly Arg Ala Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Val Tyr
282 65          70          75          80
285 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
286          85          90          95
289 Ala Arg Ser Ser Val Tyr Ser Cys Ser Tyr Gly Trp Cys Ala Gly Asn
290          100         105         110
293 Ile Asn Ala Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
294          115         120         125
297 <210> SEQ ID NO: 15
298 <211> LENGTH: 315
299 <212> TYPE: DNA
300 <213> ORGANISM: Homo sapiens
302 <400> SEQUENCE: 15
303 tagctctgag ctgactcagc cgccttcagt gtcagtggcc ctgggacaga ccgtcaggat      60
305 cacctgctcc ggaggttaca gcggctatta tggctggtac cagcagaaac ctggccaggc      120
307 tcctgtcact gtgatttatg acaacaccag gagaccctcg gacatccctt caccattctc      180
309 cggttccaaa tccggtcca cagccacatt aaccatcact ggagtccaag ccgaggacga      240
311 ggctgactat tactgtggga cctgggacag cagccgtggt ggtatatttg gaggtgggac      300
313 aaagctgacc gtcct                                     315
316 <210> SEQ ID NO: 16
317 <211> LENGTH: 105
318 <212> TYPE: PRT
319 <213> ORGANISM: Homo sapiens
321 <400> SEQUENCE: 16
323 Ser Ser Glu Leu Thr Gln Pro Pro Ser Val Ser Val Ala Leu Gly Gln
324 1          5          10          15
327 Thr Val Arg Ile Thr Cys Ser Gly Gly Tyr Ser Gly Tyr Tyr Gly Trp
328          20          25          30

```

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:46

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

```

331 Tyr Gln Gln Lys Pro Gly Gln Ala Pro Val Thr Val Ile Tyr Asp Asn
332      35      40      45
335 Thr Arg Arg Pro Ser Asp Ile Pro Ser Arg Phe Ser Gly Ser Lys Ser
336      50      55      60
339 Gly Ser Thr Ala Thr Leu Thr Ile Thr Gly Val Gln Ala Glu Asp Glu
340 65      70      75      80
343 Ala Asp Tyr Tyr Cys Gly Thr Trp Asp Ser Ser Arg Val Gly Ile Phe
344      85      90      95
347 Gly Gly Gly Thr Lys Leu Thr Val Leu
348      100      105
351 <210> SEQ ID NO: 17
352 <211> LENGTH: 27
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial
356 <220> FEATURE:
357 <223> OTHER INFORMATION: Synthetic Primer
359 <400> SEQUENCE: 17
360 gggggcgcca gcggtcgcc ctgtgtc
363 <210> SEQ ID NO: 18
364 <211> LENGTH: 31
365 <212> TYPE: DNA
366 <213> ORGANISM: Artificial
368 <220> FEATURE:
369 <223> OTHER INFORMATION: Synthetic Primer
371 <400> SEQUENCE: 18
372 cccggcgccg acaacggttt ggagggacct c
375 <210> SEQ ID NO: 19
376 <211> LENGTH: 30
377 <212> TYPE: DNA
378 <213> ORGANISM: Artificial
380 <220> FEATURE:
381 <223> OTHER INFORMATION: Synthetic Primer
383 <400> SEQUENCE: 19
384 gggctctagag ccattggact ctccgtcctg
387 <210> SEQ ID NO: 20
388 <211> LENGTH: 33
389 <212> TYPE: DNA
390 <213> ORGANISM: Artificial
392 <220> FEATURE:
393 <223> OTHER INFORMATION: Synthetic Primer
395 <400> SEQUENCE: 20
396 cccgctcagc cctccaaatt ttcatacctgg atc
399 <210> SEQ ID NO: 21
400 <211> LENGTH: 45
401 <212> TYPE: DNA
402 <213> ORGANISM: Artificial
404 <220> FEATURE:
405 <223> OTHER INFORMATION: Synthetic Primer
407 <400> SEQUENCE: 21

```

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6

<400> 103

Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
1 5 10 15

Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Trp Val  
20 25 30

Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Phe Thr Ile  
35 40 45

Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu  
50 55 60

Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Trp Gly Gln Gly  
65 70 75 80

Thr Leu Val Thr Val Ser Ser  
85

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004  
TIME: 16:34:47

Input Set : A:\PTO.FG.txt  
Output Set: N:\CRF4\09012004\J788625.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40  
Seq#:41,42,43,44,45,46,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68  
Seq#:69,70,87,88

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/788,625

DATE: 09/01/2004

TIME: 16:34:47

Input Set : A:\PTO.FG.txt

Output Set: N:\CRF4\09012004\J788625.raw

L:1 M:259 W: Allowed number of lines exceeded, (1) GENERAL INFORMATION:  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date